



Department of Commerce

Safety & Buildings Division

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Evaluation #

200406-A

## Wisconsin Alternate Standard Evaluation

Standard

Section 716.6.2  
International Building Code [IBC] - 2003

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### SCOPE OF EVALUATION

The alternate provision found in section 716.6.2 of the 2003 version of the International Building Code, has been evaluated for compliance with certain fire-resistance rated construction requirements of the current **Wisconsin Commercial Building Code (WCBC), Chapters Comm 61-65**. Pursuant to s. Comm 61.61 the alternate standard and methodology as described below is approved for use in the State of Wisconsin to satisfy the intent of the membrane penetration requirements under **IBC s. 715.6.2 of the Wisconsin Commercial Building Code**.

This evaluation does not include the review for compliance to provisions of the current **Wisconsin Commercial Building Code (WCBC)**, other than those specifically referenced above.

The use of this alternate standard and methodology is subject to the description, limitations and conditions described in this evaluation.

### DESCRIPTION AND USE

IBC Section 715.6.2 of the Wisconsin Commercial Building Code requires specific protection of duct systems penetrating the ceiling membrane of horizontal assemblies. The section includes several specific provisions that can be utilized as an alternative to shaft enclosure protection. The specifics include:

- When an approved ceiling radiation damper is installed at the ceiling line where a duct system penetrates a ceiling.
- When an approved ceiling radiation damper is installed at the ceiling line where a diffuser with no duct attached penetrates a ceiling.

The provisions found in section 716.6.2 of the International Building Code - 2003 edition, include an additional exception outlining where an approved ceiling radiation damper is not required.

In summary, the additional provision indicates ceiling radiation dampers will not be required under the following conditions:

- Where the exhaust duct is protected in accordance with the limitations outlined in the membrane penetration portion of the code section governing penetrations.
- Where the exhaust duct is located within the cavity of a wall.
- Where the exhaust duct does not pass through another dwelling unit or tenant space.

When using the alternate standard, use exception 1 of section 711.4.2, from the International Building Code – 2000, where the 2003 text refers you to section 712.4.2.

### **LIMITATIONS/CONDITIONS**

When this alternative methodology has been utilized in the design of a project, a statement identifying that use shall be included with the project construction documents, including the Wisconsin Alternative Standard Evaluation number referenced above.

Pursuant to s. Comm 61.61(7), the department may reexamine an approval and issue a revised approval at any time.

This approval will be valid through March 25, 2009, unless modifications are made to the alternate standard and methodology or a re-examination is deemed necessary by the department.

### **DISCLAIMER**

This approval addresses only the specified applications for the alternate standard and does not waive any code requirement not specified in this document.

Revision Date: October 12, 2004

Approval Date: March 25, 2004. By: \_\_\_\_\_

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